PCW 09 22 Coordinate transformations v7

Question 1

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f[3x+7]}{8} - 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 2

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 5 \cdot (f[6(x-4)] - 3)$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 3

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f[8x - 5]}{3} + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

PCW 09 22 Coordinate transformations v7

Question 4

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f\left[\frac{x}{9} - 2\right] - 4}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 5

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = 5 \cdot f\left[\frac{x-2}{7}\right] + 4$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.

Question 6

Consider the two functions f and g, where g is defined as a transformation of f:

$$g[x] = \frac{f\left[\frac{x+2}{6}\right] + 8}{9}$$

For point (a, b) on curve f there is a corresponding point on the curve g. Write the coordinate transformation.